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Published on SBIR.gov (<https://www.sbir.gov>)

[1. 8.11: Animal Waste Management](#)

Release Date: 01-11-2011Open Date: 01-11-2011Due Date: 03-01-2011Close Date: 03-01-2011

NIFA SBIR USDA-NIFA-SBIR-003399 0 8.11 NIFA SBIR USDA-NIFA-SBIR-003399 0 ...

SBIR National Institute of Food and Agriculture

[2. 8.1: Related Resources](#)

Release Date: 01-11-2011Open Date: 01-11-2011Due Date: 03-01-2011Close Date: 03-01-2011

NIFA SBIR USDA-NIFA-SBIR-003399 0 8.1 NIFA SBIR USDA-NIFA-SBIR-003399 0 ...

SBIR National Institute of Food and Agriculture

[3. MDA11-T001: Develop Accelerated High Power RF MEMs Switch and Phase Shifter Reliability Test Methodologies](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: This topic seeks to identify and develop high-power Radio Frequency Micro Electro-Mechanical Systems (RF-MEMS) accelerated reliability test methodologies to reduce technology acceptance time for switched phase shifters that utilize capacitive or contact RF MEMS switches. Currently, life testing conducted on RF MEMs switching devices requires significant time and cost due to a lack of ph ...

STTR Missile Defense Agency

[4. MDA11-T002: Defect Reduction Techniques for Large Format Infrared Detector Materials](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The overall objective of this effort is to develop innovative solutions to significantly decrease the defect and dislocation sizes and densities in large format ($>25 \text{ cm}^2$) II-VI compound semiconductor infrared detector materials. Emphasis shall be given to detectors operating in the short through mid-long wavelength regime (~ 10 micron cut-off).

DESCRIPTION: The Missile Defense Agency ...

STTR Missile Defense Agency

[5. N11A-T001: Automated Human and System Performance Assessment in Operational Environments](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a self contained deployable system to automatically quantify combined

human and systems performance in real-time and for after-action-review by fusing output of normative models of behavior, human state, system state, and contextual situation state. DESCRIPTION: Complex weapons systems require years of training for crews to master all aspects of the system, the situations ...

STTR Navy

6. [N11A-T002: Compact Radar Technology For Over the Horizon Small-Boat and Semi-Submersible Detection and Tracking](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a compact multi-input, multi-output Ka-band radar system to provide over-the-horizon maritime target detection and tracking utilizing evaporation duct propagation. DESCRIPTION: The long-range detection, tracking, and classification of maritime surface contacts including detection and discrimination of small targets such as periscope masts is an essential Naval capability. Lon ...

STTR Navy

7. [N11A-T003: Plasmonic Enhancement of Receiver Circuits for Energy Harvesting](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop novel solutions for plasmonic field enhancement of receiver circuits for energy harvesting applications. DESCRIPTION: Plasmonic field enhancement is now a viable technological tool. It is used extensively in enhancing the sensitivity of a number of spectroscopic techniques. Surface enhanced Raman spectroscopy and spectroscopy depending on Stark effect are key examples. It a ...

STTR Navy

8. [N11A-T004: High Resolution Measurement of the Flow Velocity Field in a Supersonic Jet Plume](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a non-invasive (non-seeded) approach to measure the unsteady, 3-D velocity field of a supersonic jet plume for a stationary aircraft. Looking also to make high resolution, time resolved measurements of the turbulent flow field for Short Take-Off/Vertical Landing (STOVL) aircraft with both subsonic and supersonic flow regions. DESCRIPTION: Modern supersonic jet aircraft engin ...

STTR Navy

9. [N11A-T005: Modeling of pulse propagation in a four level atomic medium for gyroscopic measurements](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date:
03-30-2011

OBJECTIVE: Develop robust, versatile and computationally efficient models for an as yet not designed gyroscope based on a four level N-scheme atomic system and a bidirectional ring resonator. DESCRIPTION: It has long been known since the pioneering work of Sagnac that light can be a utilized to perform interferometrically sensitive measurements of rotation. If one considers a ring cavity rotati ...

STTR Navy

10. [N11A-T006: Advanced Thin-film Battery Development](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date:
03-30-2011

OBJECTIVE: Develop novel light weight high efficiency thin-film batteries for use in Unmanned Autonomous Vehicles (UAVs), remote sensors, expendables, energy harvesting and in"wearable"flexible electronics. DESCRIPTION: Energy harvesting is important for distributed networks used in remote sensors, perimeter protection, intruder alerts and for widespread monitoring of bio-threats. Most energy ...

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